

APPENDIX

The claims on appeal are as follows:

- Acw 39. A purified LAV $\lambda J19$ DNA fragment consisting of a restriction fragment generated by the *BamHI* site at approximately 8150 to the *BglII* site at approximately 9150.
- 40. A purified LAV $\lambda J19$ DNA fragment consisting of a restriction fragment generated by the BamHI site at approximately 8150 to the BglII site at approximately 8750.
- 41. A purified LAV $\lambda J19$ DNA fragment consisting of a restriction fragment generated by the KpnI site at approximately 6100 to the BgIII site at approximately 6500.
- 42. A purified LAV $\lambda J19$ DNA fragment consisting of a restriction fragment generated by the KpnI site at approximately 6100 to the BglII site at approximately 8750.
- 43. A purified LAV $\lambda J19$ DNA fragment consisting of a restriction fragment generated by the KpnI site at approximately 6100 to the BgIII site at approximately 9150.
- 44. A purified LAV $\lambda J19$ DNA fragment consisting of a restriction fragment generated by the KpnI site at approximately 3500 to the KpnI site at approximately 6100.

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- 45. A purified LAV $\lambda J19$ DNA fragment consisting of a restriction fragment generated by the KpnI site at approximately 3900 to the KpnI site at approximately 6100.
- 46. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the BamHI site at approximately 8150 to the BglII site at approximately 9150, wherein said numbering scheme is based upon the restriction map of LAV isolate $\lambda J19$.
- 47. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the BamHI site at approximately 8150 to the BglII site at approximately 8750, wherein said numbering scheme is based upon the restriction map of LAV isolate $\lambda J19$.
- 48. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the KpnI site at approximately 6100 to the BgIII site at approximately 6500, wherein said numbering scheme is based upon the restriction map of LAV isolate $\lambda J19$.
- 49. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the *Kpn*I site at approximately 6100 to the *Bgl*II site at approximately 8750, wherein said

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numbering scheme is based upon the restriction map of LAV isolate $\lambda J19$.

- 50. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the KpnI site at approximately 6100 to the BgIII site at approximately 9150, wherein said numbering scheme is based upon the restriction map of LAV isolate $\lambda J19$.
- 51. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the KpnI site at approximately 3500 to the KpnI site at approximately 6100, wherein said numbering scheme is based upon the restriction map of LAV isolate $\lambda J19$.
- 52. A purified DNA fragment of HIV-1 consisting of a restriction fragment generated by the KpnI site at approximately 3900 to the KpnI site at approximately 6100, wherein said numbering scheme is based upon the restriction map of LAV isolate $\lambda J19$.
- 60. A recombinant vector comprising a DNA fragment as claimed in any one of claims 46 through 52.
- 61. A host cell transformed with a vector as claimed in claim 60.

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- 62. A purified DNA fragment of HIV-1 consisting of a restriction fragment, wherein the fragment hybridizes to the genomic DNA of HIV-1 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.
- 63. The fragment of claim 62, wherein the hybridizing genomic HIV-1 DNA is $\lambda J19$ DNA.
- 64. A cloned DNA fragment of HIV-1, wherein said fragment hybridizes to the genomic DNA of HIV-1 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.
- 65. The fragment of claim 64, wherein the hybridizing genomic HIV-1 DNA is $\lambda J19$ DNA.
- 66. An isolated double-stranded DNA fragment of HIV-1, wherein a strand of said fragment hybridizes to the genomic DNA of HIV-1 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.
- 67. The fragment of claim 66, wherein the hybridizing genomic HIV-1 DNA is $\lambda J19$ DNA.
- 68. An amplified copy of a DNA fragment of HIV-1, wherein said fragment hybridizes to the genomic DNA of HIV-1 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.

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- 69. The copy of claim 68, wherein the hybridizing genomic HIV-1 DNA is $\lambda J19$ DNA.
- 70. A vector comprising an HIV-1 DNA fragment, wherein said fragment hybridizes to the genomic DNA of HIV-1 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.
- 71. The vector of claim 70, wherein the hybridizing genomic HIV-1 DNA is $\lambda J19$ DNA.
- 72. A host cell transformed with a vector comprising an HIV-1 DNA fragment, wherein said fragment hybridizes to the genomic DNA of HIV-1 under hybridization conditions of 20% formamide, 8X SSC, at 37°C, with washes in 2X SSC, 0.1%SDS, at 37°C.
- 73. The host cell of claim 72, wherein the hybridizing genomic HIV-1 DNA is $\lambda J19$ DNA.

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